

Attorney Docket No.: 030354

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Tuschel et al.)			
Serial No.:	10/610,481)			
Filing Date:	June 30, 2003)			
Entitled:	METHOD FOR RAMAN IMAGING OF SEMICONDUCTOR MATE				

INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15219 March 29, 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to the provisions of 37 C.F.R. Sections 1.56, 1.97 and 1.98, Applicant submits the documents listed on the attached PTO/SB/08A for consideration during prosecution of the above-captioned patent application filed on June 30, 2003. In addition, Applicant refers the Examiner to the prior art made of record in the following parent applications: (i) Application Serial No. 09/619,371, filed July 19, 2000; (ii) Application Serial No. 09/976,391, filed October 12, 2001; and (iii) Application Serial No. 09/800,953, filed March 7, 2001.

This statement is made solely for the purpose of compliance with the above-identified rules and is not intended to be a substitute for an independent search by the Examiner and no representation of any such nature is made or intended by this statement.

I hereby certify that the correspondence is being described with the United States Postal Service on first class mail in so envelope addressed to: Commissioner for Patents, P.O. Sex 1450, https://doi.org/10.1001/10

Also enclosed is a return postcard. Please date stamp and mail the postcard to acknowledge receipt of the above-mentioned correspondence.



Respectfully submitted,

Michael L. Dever Reg. No. 32,216

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Attorneys for Applicant

Dated: March 29, 2004

Enclosure

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Attorney Docket Number

030354

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known ibstitute for form 1449/PTO Application Number 10/610,481 INFORMATION DISCLOSURE Filing Date June 30, 2003 STATEMENT BY APPLICANT First Named Inventor Tuschel, David **Group Art Unit** 2877 (use as many sheets as necessary) **Examiner Name** [Not Assigned]

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Sheet

	_	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/.or country where published.			
	BA	MIZOGUCHI et al. "Raman image study of flash-lamp annealing of ion-implanted silicon" <i>Journal of Applied Physics</i> 77 (7) 1 April 1995, pp. 3388-3392.			
-	BB	OTHONOS et al., "Raman spectroscopy and spreading resistance analysis of phosphorous implanted and annealed silicon", <i>Journal of Applied Physics</i> 75 (12) 15 June 1994, pp. 8032-8038.			
	BC	OTHONOS et al., "Multi-wavelength Raman probing of phosphorus implanted silicon wafers", Nucl. Instr. and Meth. in Phys. Rev. B. 117 (1996) pp. 367-374			
	BD	CHRISTOFIDES et al., "Reconstruction mechanisms in ion implanted and annealed silicon wafers ", Defect and Diffusion Forum Vols. 117-118 (1985), pp. 45-64			
	BE	ISHIOKA et al. "Reduction in Raman Intensity of Si (1 1 1) Due to Defect Formation During Ion Irradiation", Solid State Communications, Vol. 96, No. 6, pp. 387-390 (1995).			
	BF	DEY et al, "Raman scattering characterization of Si(100) implanted with mega-electron-volt Sb", Journal of Applied Physics 87 (3) 1 February 2000, pp. 1110-1116			
	BG	JAIN et al, "Raman scattering from ion-implanted silicon" <i>Physical Review B</i> . Vol. 32, No. 10, 15 November 1985, pp. 6688-6691			
	ВН	DEWILTON et al, "RAMAN SPECTROSCOPY FOR NONDESTRUCTIVE DEPTH PROFILE STUDIES OF ION IMPLANTATION IN SILICON", J. Electrochem. Soc.: SOLID STATE SCIENCE AND TECHNOLOGY, ,May 1986, pp. 988-993			
	BI	ZHANG et al "Details of the Damage Profile in Self-Ion-Implanted Silicon", vol. 25 Journal of Raman Spectrocsopy, pp. 515-520 (1994).			
	BJ	GORELICK, "Raman And Non-Linear Light Scattering From Undersurface Layers Of Ion Implanted Silicon Crystals", materials Science Forum, vol. 173-174 (1995) pp. 237-242			
· · · · · · · · · · · · · · · · · · ·	BK	NAKASHIMA et al. "Raman microprobe study of recrystallization in ion-implanted and laser-annealed polycrystalline silicon" <i>Journal of Applied Physics</i> 54 (5) May. 1983, pp. 2611-2617			

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known		
			OSLIDE	Application Number	10/610,481	
				Filing Date	June 30, 2003	
			JCANI	First Named Inventor	Tuschel, David_	
			Group Art Unit	2877		
(use as many sheets as necessary)		Examiner Name	[Not Assigned]			
Sheet	3	of	3	Attorney Docket Number	030354	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/.or country where published.			
	BL	SHUKLA et al, "Raman scattering from ultraheavily-ion-implanted and laser-annealed silicon" <i>Physical Review B.</i> Vol. 34, No. 12, 15 December 1986, pp. 8950-8953			
	ВМ	DEWILTON et al, "A Raman study of the dopant distribution in submicron pn junctions in B ⁺ or BF ₂ ⁺ ion implanted silicon", SPIE Vol. 623 Advanced Processing and Characterization of Semiconductors III 1986, pp.26-34			
		KIRILOV et al; "Amorphous phase transformation during rapid thermal annealing of ion-implanted Si", <i>Mat'l. Res. Soc. Symp. Proc.</i> , Vol. 52 (1986), pp. 131-138			
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